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9-28-2011

Office of Research, Awards & Recognition, September 28, 2011

University of Tennessee Office of Research

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Recommended Citation

Office of Research, University of Tennessee, "Office of Research, Awards & Recognition, September 28, 2011" (2011). *Awards and Recognitions*.
https://trace.tennessee.edu/utk_researchawards/77

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AWARDS AND RECOGNITIONS

<http://research.utk.edu>

SEPTEMBER 28, 2011

AWARDS FOR SEPTEMBER 7–16, 2011

| INVESTIGATOR | TITLE | SPONSOR | AWARD |
|--|--|--|-----------|
| COLLEGE OF ARTS & SCIENCES | | | |
| Butefish, Kurt | Operating Funds for the Tennessee Geographic Alliance | Tennessee Geographic Alliance | \$93,835 |
| Dadmun, Mark | Fall National ACS Meeting Symposium: Polymer Coatings for the Environment | Army Research Office | \$2,500 |
| Dagotto, Elbio | Theoretical Studies of Model Hamiltonians | UT-Battelle - ORNL | \$28,903 |
| Dai, Pengcheng | Growth and Characterization of Magnetic Nanostructures | UT-Battelle - ORNL | \$11,522 |
| Dai, Pengcheng | International Consortium for Probing Novel Superconductors with Neutrons, Nuons | Columbia University | \$90,721 |
| DeCorse, Elizabeth; Hollenbach, Kandace | Archaeological Survey Of Federal Landholdings | US Dept. of Interior - National Park Service | \$14,989 |
| Dolislager, Fredrick; Galloway, Leslie; Gross, Louis | Risk Integration Support for FY 2011 | Bechtel Jacobs Company, LLC | \$3,443 |
| Feigerle, Charles | SNS 2008 Foils Project | UT-Battelle - ORNL | \$37,385 |
| Gordon, Kristina | En-Pareja: A Latino Couples Intervention to Help Expectant Fathers Quit Smoking | Duke University Medical Center | \$30,523 |
| Hinde, Robert | Surface Impact Simulations of Doped Helium Nanodroplets | Air Force Research Laboratory | \$80,000 |
| Kamyshkov, Yuri | Request for Sponsoring BLV-2011 Workshop | DOE - Office of Science | \$8,000 |
| Kilbey, Sidney; Mays, Jimmy | Role of Chain Microstructure and Branching on Solution and Thin Film Phase | Department of the Army | \$147,000 |
| Perfect, Edmund | Rock Core Sample Porosity Testing of the Knox -Stones River Group Storage Assess | TN Dept. of Environment and Conservation - Div. of Geology | \$10,422 |
| Podar, Mircea | Enhancing Expertise in Archaeal Taxonomy: Classical and Molecular-based | Portland State University | \$22,674 |
| Sokolov, Alexei | Dynamics of Water and Molecular Mobility in Amino Acids, Peptides, Sugars | Unilever Research and Development | \$240,000 |
| Taylor, Lawrence | The Moon as Cornerstone to the Terrestrial Planets: The Formative Years | Brown University - Office of Sponsored Projects | \$35,000 |
| Vogt, Frank | Collaborative Research: Synchrotron-Based In-vivo Chemical Imaging | National Science Foundation | \$66,667 |
| Yerka, Stephen; DeCorse, Elizabeth | In-Field Archaeological Geophysical Consultation, Oxford Recreation Complex | Goodwyn, Mills Cawood, Inc. | \$16,871 |
| COLLEGE OF BUSINESS ADMINISTRATION | | | |
| Moore, John | Provide Services Supportive of the Wage and Hour Div. | US Dept. of Labor | \$799,872 |
| COLLEGE OF COMMUNICATION & INFORMATION | | | |
| Suttles, Barbara | Genome Management Information System - Information Specialist II | UT-Battelle - ORNL | \$20,000 |
| Suttles, Barbara | Genome Management Information System - Research Associate III | UT-Battelle - ORNL | \$28,500 |
| Suttles, Barbara | Genome Management Information System/Communications and Management Expert | UT-Battelle - ORNL | \$95,900 |
| COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES | | | |
| Brewer, Ernest | Veteran's Upward Bound | US Dept. of Education - Postsecondary Ed - Work Study | \$306,123 |
| Ciancio, Dennis | Development of Integrated Text-Level Curricula for Kindergarten Through Second Grade | US Dept. of Education | \$452,581 |
| Haughton, Betsy | Public Health Nutrition Leadership Education and Training for a Healthy MCH Population | DHHS - Health Resources and Services Administration | \$39,000 |
| COLLEGE OF ENGINEERING | | | |
| Alshibli, Khalid | Experimental Measurements of Stresses and Strains of Granular Materials Using 3D | National Science Foundation | \$147,930 |
| Attard, Thomas | NEESR Next-Gen Program | Rice University | \$25,528 |
| Bennett, Richard | Piling Framed Retaining Wall: Extension of Data Collection, Design Refinement | Tennessee Department of Transportation | \$139,000 |
| Boder, Eric | Controlling the Dynamics of Cell Adhesion Using Engineered Integrin I-Domain | NIH - National Institute of Mental Health | \$175,770 |
| Clarke, David | Fuel Economy Web Site | UT-Battelle - ORNL | \$73,166 |
| Clarke, David | Vehicle Registration and Miles of Travel Assistance | UT-Battelle - ORNL | \$21,386 |
| DeSmidt, Hans | Collaborative Research: Hybrid Control of Gear System Vibration | National Science Foundation | \$188,726 |
| Djouadi, Mohamed | Analysis of Smart-Grid Applications using next Generation Communication | UT-Battelle - ORNL | \$46,932 |
| Dodds, Harold | National Academy for Nuclear Training - Health Physics | National Academy for Nuclear Training - Educational Assistance | \$25,000 |
| Dongarra, Jack; Andrews, Philip | Keeneland: National Institute for Experimental Computing | Georgia Institute of Technology | \$222,976 |
| Duscher, Gerd | Atomic-scale Investigation of Energy Materials | UT-Battelle - ORNL | \$58,098 |

| AWARDS FOR SEPTEMBER 7–16, 2011 (CONT.) | | | |
|---|---|--|-----------|
| INVESTIGATOR | TITLE | SPONSOR | AWARD |
| Hall, Howard | Technical Support for the Development of Advanced Safeguards Measurement | UT-Battelle - ORNL | \$45,058 |
| Hall, Howard | Technical Support for the Development of Advanced Safeguards Measurement | UT-Battelle - ORNL | \$15,900 |
| Hayward, Jason | ARI-MA Research Program in Exploiting Time-Correlated Signatures | US Dept. of Homeland Security | \$398,944 |
| Hayward, Jason | Detector-Mask Investigation for Dual Gamma-Ray and Fast Neutron | UT-Battelle - ORNL | \$16,168 |
| Hayward, Jason | Curriculum Development for Nuclear Security Science and Analysis | UT-Battelle - ORNL | \$50,000 |
| Hines, J.; Upadhyaya, Belle | Development and Validation of a Lifecycle-based Prognostics Architecture | U.S. Department of Energy | \$846,315 |
| Lee, Ida | Surface Characterization and Mapping of Lignocellulose Samples by Chemical Force Microscopy | UT-Battelle - ORNL | \$41,916 |
| Li, Fangxing | Economical Stability and Physical Stability Study for Controllable Load | National Science Foundation | \$6,000 |
| Mandrus, David | Crystal Growth and Neutron Scattering | UT-Battelle - ORNL | \$144,075 |
| McHargue, Carl | Computational Modeling for Radiation Effects | UT-Battelle - ORNL | \$71,000 |
| McHargue, Carl; Bai, Jianming | Synchrotron Beamline Technical Assistance | UT-Battelle - ORNL | \$37,541 |
| McHargue, Carl; Stewart, David | Modeling and Simulation Studies In Support of Nuclear Energy Systems | UT-Battelle - ORNL | \$31,592 |
| Miller, Laurence; Melcher, Charles; Penumadu, Dayakar | Transformational Scintillation Materials for Neutron and Gamma Detectors and Education Integration | US Dept. of Homeland Security | \$399,969 |
| Miller, Laurence; Walford, Graham | Spent Fuel Cask Profiling | DOE - Savannah River National Laboratory | \$30,000 |
| Nguyen, Ke | Modeling of Zeolite SCR Catalysts | UT-Battelle - ORNL | \$18,585 |
| Pharr, George | Experimental Studies of Small-Scale Mechanical Behavior | UT-Battelle - ORNL | \$122,227 |
| Poore, Jesse; Swain, William | SNS Analysis Software Architecture and Prodess Definition | UT-Battelle - ORNL | \$30,000 |
| Sawhney, Rapinder | An Optimization Model for Packaging Meal, Ready-to-Eat | UT - Institute of Agriculture | \$79,804 |
| Sawhney, Rapinder | An Optimization Model for Packaging Meal, Ready-to-Eat | UT - Institute of Agriculture | \$11,222 |
| Sawhney, Rapinder | An Optimization Model for Packaging Meal, Ready-to-Eat | UT - Institute of Agriculture | \$5,808 |
| Tomsovic, Kevin; Li, Fangxing; Tolbert, Leon | Scalable and Flat Controls for Reliable Power Grid Operation with High Renewable Penetration | Stanford University GCEP | \$299,141 |
| Townsend, Lawrence | Additional Improvements to the Hzetrn Code and the Nucfrg2 Database | NASA - Langley Research Center | \$48,837 |
| Zhang, Yanwen | EFRC Theory and Computational Support | UT-Battelle - ORNL | \$65,000 |
| COLLEGE OF SOCIAL WORK | | | |
| Campbell, Paul; Cunningham, Maryanne | PSAM Database Maintenance and Reporting | Signal Centers, Inc | \$4,599 |
| CAMPUS CENTERS & INSTITUTES | | | |
| Harrison, Robert | Research Alliance in Math and Science (RAMS) 2011 | UT-Battelle - ORNL | \$32,299 |
| Parker, John | Assessing the Potential Consequences of Subsurface Bioremediation: Fe-oxide Bioreductive Processes...Media Structural Breakdown | UT - Institute of Agriculture | \$169,785 |
| Sayler, Gary | Cellulosic Biomass Deconstruction, Characterization and Modeling | UT-Battelle - ORNL | \$97,462 |
| OTHER | | | |
| Smith, Steven | UT/ORNL Library Project | UT-Battelle - ORNL | \$425,000 |

RECOGNITIONS

Outside magazine recently included a favorable mention of the cycleUshare electric bike sharing project that **Chris Cherry** is piloting for the UT Knoxville campus. Cherry is an assistant professor in civil and environmental engineering.

Ramon P. DeGennaro, professor of banking and finance in the College of Business Administration, recently presented an invited lecture at the Chautauqua Institution. His talk was part of a course titled “The Causes, Cures, and Consquences of the Financial Crisis.” DeGennaro has also been named an associate editor of the *Financial Review*, the journal of the Eastern Finance Association.

UT Students Rank Their REUs Higher Than National Average

University of Tennessee undergraduates rank their summer research experiences as having higher value than those of other nationally surveyed undergraduates.

The survey of 2,709 students, conducted by the Howard Hughes Medical Institute, asked questions about how undergraduates’ research experiences affected their skills interpreting results, tolerance for obstacles, ability to analyze data and to integrate theory and practice, and other professional and academic characteristics.

UT students involved in REUs scored the value of their involvement in UT research higher on all questions than did their counterparts at other colleges and universities.